



BAL BHARATI PUBLIC SCHOOL, PITAMPURA

CLASS 9 – HOLIDAY HOMEWORK

2025-26

As we step into the sunshine of summer, let's spark our curiosity and creativity. May this break be a time of discovery, growth, and joy!

To make the most of your vacation, we've prepared engaging tasks and activities to keep you inspired and motivated. Here are some tips to help you stay on track:

1. **Plan Your Time:** Create a schedule that balances study, relaxation, and fun.
2. **Prioritize Tasks:** Focus on the most important assignments first.
3. **Stay Consistent:** Maintain a regular study routine.
4. **Take Breaks:** Refresh your mind with short breaks.
5. **Seek Help:** Don't hesitate to ask teachers or friends for support.
6. **Stay Organized:** Keep your study space tidy and organized.

Check the attached Holiday Homework document for details, resources, and submission guidelines.

Wishing you a wonderful break filled with learning, laughter, and adventure!

Celebrating International Yoga Day

As we approach the International Yoga Day on 21st June 2025, let's make a commitment to prioritize our well-being. Here are some simple yet powerful practices to adopt:

- Practise yoga with your family daily, even if it's just for a few minutes.
- Nourish your body with a balanced and healthy diet.
- Establish a consistent sleep routine to recharge your mind and body.
- Take a few moments each day to meditate and connect with your inner self.

Let's embark on this journey of wellness together and make healthy habits a part of our daily lives!

Highways to Progress – A Path to Learning

Highways to Progress, the theme of this year's Holiday Homework, endeavours to help students explore how modern infrastructure is shaping India's growth story. With the rapid expansion of highways across the country, students get a chance to understand their impact on connectivity, economy, tourism, and national development. This theme not only highlights India's progress but also encourages students to think critically, research real-world changes, and present their findings creatively. The activities have been thoughtfully curated to help students explore various aspects of this development through engaging and age-appropriate tasks. So, let us embark on a journey of learning through the roads that are transforming the nation.

SEWA ACTIVITY

Focus Point

- To bridge the technological gap by helping elderly people use smartphones confidently and safely.

Learning Outcomes:

Each learner will be able to:

- understand common technological barriers faced by elderly people.
- teach elderly individuals basic digital safety practices.
- promote social inclusion by connecting elders to essential digital services.

<https://youtu.be/Kb-jnFWNyg0>

<https://youtu.be/ar2MOvn2aDc>

<https://youtu.be/1EbmrO4Fnk0>

<https://youtu.be/W4IPn680Yto>

Instructions for the Students:

- Research on the common technological barriers faced by elderly people and **briefly explain them**.
- Prepare a **small guide or checklist** for them.
- Organize either **in-person sessions or virtual workshops** to teach them smartphone skills

Teach basic skills like:

- Making and receiving calls
- Sending text messages
- Never sharing OTPs, PIN numbers, or passwords on calls even if the caller plays emotional tactics
- Using apps for essential services (Paytm, Google Maps, WhatsApp, etc.)
- Staying connected through video calls and social media.

Students must **support their activities with pictures** as evidence and briefly explain the cause they are working for, highlighting the impact of their contribution towards the community.

SUBJECT	English
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING EK BHARAT SHRESHTHA BHARAT
TOPIC-PROJECT / ACTIVITY	<p>Design a creative and informative travel brochure on the theme 'Welcome to Sikkim'.</p> <ul style="list-style-type: none"> The brochure should highlight the best aspects of Sikkim, including top tourist destinations like Gangtok, Tsomgo Lake, and Rumtek Monastery. Include information on traditional food items such as momos and thukpa, and showcase festivals like Losar and Saga Dawa. Add fun facts like Sikkim being India's first organic state, and include a catchy slogan or tagline to make your brochure attractive. Finally, make sure to decorate your brochure with pictures, drawings, or creative borders to make it visually appealing. <p style="text-align: center;">OR</p> <p>Imagine you are on a week-long trip to Sikkim. Write a diary entry about your experiences. Describe the places you visited, such as Tsomgo Lake or Gangtok, and the local food you tried, like momos or thukpa. Share your impressions of the natural beauty, cultural wonders, and any memorable interactions with the locals. Finally, reflect on how the trip made you feel and what you learned about Sikkim.(120-150 words)</p>
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to:</p> <ul style="list-style-type: none"> gain insights into the rich cultural heritage of Sikkim, exploring its unique traditions, festivals, art forms, and diverse communities. develop an appreciation for the natural beauty and biodiversity of Sikkim's mountainous ecosystem. practice descriptive writing skills by vividly capturing the sights, sounds, and sensations experienced during their exploration of Sikkim. engage in reflective thinking, contemplating the significance of their experiences in Sikkim and the lessons learned.
RESOURCES	https://www.youtube.com/watch?v=K7IYGNxwzQA
MODE OF SUBMISSION	<p style="text-align: center;">Offline</p> <p>Diary Entry- A4 size sheet Brochure – A3/A4 sheet</p>
RUBRICS	<p>Content-2 marks</p> <p>Originality-2 marks</p> <p>Accuracy-1 mark</p>

SUBJECT	Mathematics
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>The Success Lane: Designing Your Dream Highway Details: Task 1 Write a short introduction (100–150 words) on how Mathematics plays a role in designing highways. Mention any one example of a smart highway in India. Task 2 : Budgeting Estimate the total cost of constructing your highway which is 4 km long using sample rates (you may assume or research average costs like): Asphalt paving: ₹500 per sq. meter Divider installation: ₹2000 per meter Green belt: ₹300 per sq. meter Toll booth: ₹5 lakhs each Prepare a detailed budget for each component and hence the total budget. Task 3 Create a Square Root Spiral (also known as a Spiral of Theodorus) using two different Indian art forms.”</p> <ol style="list-style-type: none"> 1. Construct a square root spiral showing at least the first 10 segments (from $\sqrt{1}$ to $\sqrt{10}$) using accurate geometric construction and measurement. (Take 1 unit = 2 cm) 2. Decorate or integrate the spiral design using any two Indian traditional art forms (e.g., Madhubani, Warli, Kalamkari, Gond, Pattachitra, etc.). 3. Label each segment with the corresponding square root value. 4. Present your work neatly on A4 or chart paper
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to:</p> <ul style="list-style-type: none"> • Apply knowledge of geometry and measurement to design scaled diagrams. • Understanding square roots geometrically. • Appreciating Indian art through Mathematical design. • Apply unit conversion and area formulas to real-world contexts. • Understand cost analysis in construction and infrastructure planning • Understand the role of Mathematics in urban development and infrastructure planning. <p>Skill Enhanced</p> <ul style="list-style-type: none"> • Spatial visualization • Precision and attention to detail • Creative and critical thinking in design • Data interpretation • Real-world application of Mathematics • Financial literacy and planning
RESOURCES	<ul style="list-style-type: none"> • https://www.google.com/maps • https://www.statista.com/statistics/1009390/india-budget-allocation-for-national-highway-development/
MODE OF SUBMISSION	Offline
RUBRICS	<p>Design and geometric accuracy -2 Budgeting and cost analysis- 2 Presentation and Visual Appeal -1</p>

SUBJECT	SCIENCE
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>"Highways of the Future: Powered by Nature, Built for Tomorrow"</p> <p>Details-Prepare a Research based Project on the following pointers:-</p> <ul style="list-style-type: none"> • How is renewable energy (solar, wind, piezoelectric) used in highways? • Which eco-friendly materials are used in road construction? • What are real-world examples of smart and sustainable roads? • Find examples from India and around the world (e.g., India's plastic roads, Netherlands' solar bike path). • Watch videos or read articles where experts talk about green road construction and renewable energy. Write a short paragraph (5–6 lines) mentioning what you learned from the video or article and include the source link or the title. • Analyze how such highways can reduce carbon footprints and support climate action.
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to:</p> <ul style="list-style-type: none"> • explain how renewable energy (like solar and wind) can be used in road construction. • identify eco-friendly materials used to build sustainable roads (e.g., plastic waste, fly ash). • mention real-life examples of smart and green roads from India and other countries. • analyze how such highways help reduce pollution and support climate action. <p>SKILL ENHANCED</p> <ul style="list-style-type: none"> • Research Skills • Creative Thinking • Problem-Solving • Environmental Awareness
RESOURCES	<ol style="list-style-type: none"> 1. https://thebetterindia.com/ – Stories on eco-friendly innovations in India 2. https://nationalgeographic.com/ – Articles on climate change and sustainable development 3. https://pib.gov.in/ – Press Information Bureau (for updates on India's plastic roads and green projects) 4. https://teded.ted.com/ – Search for “solar roads” or “renewable energy” 5. YouTube Channels: <ul style="list-style-type: none"> ○ TED-Ed ○ BBC Earth ○ National Geographic ○ Down to Earth (CSE India)
MODE OF SUBMISSION	On A4 sized sheets(3-4 pages)
RUBRICS	<p>Research and Analysis - 2 marks</p> <p>Presentation - 2 marks</p> <p>Content - 1 mark</p>

SUBJECT	SOCIAL SCIENCE
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING EK BHARAT SHRESHTHA BHARAT
TOPIC-PROJECT / ACTIVITY	<p><u>'LET'S MAKE OUR HIGHWAYS SAFE'</u></p> <p>Details- Students will prepare a report (300-400 words) focusing on the National Highways of Sikkim. The report must highlight the following:</p> <ul style="list-style-type: none"> • Development of highways in Sikkim followed by infrastructure development (use a comparative chart) • Incidents of Earthquakes and accidents on the highways of Sikkim. • Government initiatives to improve highway safety . • The illustrative cover page of the report must focus on 'Drive Safe, Stay Safe.'
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to:</p> <ul style="list-style-type: none"> • understand the geographical and infrastructural challenges of a hilly state like Sikkim. • analyze the impact of national highway development on regional growth. • identify natural hazards and their influence on road safety. • evaluate government strategies for public safety and infrastructure management. • express creativity through an illustrated cover page.
RESOURCES	<p>Website: https://morth.nic.in (Check for updates on highway projects, safety initiatives, and development reports.)</p> <p>Website: https://bro.gov.in (BRO plays a major role in constructing and maintaining highways in mountainous regions)</p> <p>Website: https://nhai.gov.in (Includes highway maps, project updates, and road safety programs.)</p>
MODE OF SUBMISSION	Offline on the A4 size sheets (3-4 sheets)
RUBRICS	<p>Research and Content- 2 marks</p> <p>Presentation - 2 marks</p> <p>Cover Page - 1 mark</p>

SUBJECT	HINDI
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>गतिविधि का नाम - राष्ट्रीय राजमार्ग : एक कदम विकास की ओर</p> <p>विधा - साक्षात्कार</p> <p>(व्यक्तिगत गतिविधि)</p> <ul style="list-style-type: none"> ● प्रत्येक विद्यार्थी केंद्रीय सड़क एवं परिवहन मंत्री श्री नितिन गडकरी से साक्षात्कार हेतु 10 - 12 प्रश्न बनाएगा। ● प्रश्न और उसका अनुमानित उत्तर A4 साइज की शीट पर लिखेगा। ● मधुबनी / वर्ली आर्ट के द्वारा बॉर्डर बनाकर वह अपनी शीट को सुसज्जित करेगा। ● संपूर्ण कार्य A - 4 आकार के 2 - 3 पृष्ठों में किया जाएगा।
LEARNING OUTCOME/SKILL ENHANCED	<ul style="list-style-type: none"> ● प्रत्येक विद्यार्थी राष्ट्रीय विकास में सड़को के योगदान से परिचित होने में सक्षम हो पाएगा। ● वे किसी बड़ी परियोजना में आने वाली समस्याओं से परिचित होंगे तथा उनके समाधान के तरीके निकालने में सक्षम हो पाएँगे। ● कल्पना शक्ति का विकास होगा और वे प्रश्न निर्माण करने में सक्षम हो पाएँगे।
RESOURCES	<p>प्रश्न निर्माण हेतु नितिन गडकरी जी के द्वारा दिए गए साक्षात्कार के निम्नलिखित लिंक को देखें-</p> <p>https://www.youtube.com/watch?v=9EAloGhIYnU</p> <p>https://www.youtube.com/watch?v=uQmZyTXiwXE</p>
MODE OF SUBMISSION	विद्यार्थी उपर्युक्त साक्षात्कार एक फाइल में पृष्ठ लगा कर अपनी कक्षा अध्यापिका को जमा करेंगे
RUBRICS	<p>कुल अंक- 5</p> <p>विषयवस्तु - 2 अंक</p> <p>प्रस्तुतीकरण - 2 अंक</p> <p>कला संयोजन - 1 अंक</p>

SUBJECT	SANSKRIT
ASSESSMENT PARAMETER	TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>धनानां निधानं धरायां प्रधानम् इदं भारतं देवलोकेन तुल्यम् यशो यस्य शुभ्रं विदेशेषु गीतं प्रियं भारतं तत् सदा पूजनीयम्।</p> <p>Name of the Activity- “प्रगति के पथ पर भारत।”</p> <p>विस्तार - छात्राः प्रदत्त विषये 80-100शब्द -परिमिताः संस्कृत- भाषायां लेखं लेखिष्यन्ति।</p> <p>ते समुचित-चित्रैः कार्यं सज्जितं करिष्यन्ति।</p>
LEARNING OUTCOME/SKILL ENHANCED	<ul style="list-style-type: none"> व्यक्तिगतव्यञ्जनम् : स्वस्य विचारान् चिन्तनानि संस्कृतभाषायां साझाकरणम्। भाषाकौशलम् : सम्यक् व्याकरणेन सह संस्कृतभाषायां सुसंगतपरिच्छेदलेखनम्। शोधकौशलम् : विश्वसनीयस्रोताभ्यां तथात्मकदत्तांशसङ्ग्रहणं व्यवस्थितीकरणं च। समीक्षात्मकचिन्तनम् : विकासपरियोजनायाः प्रभावस्य चुनौतीनां च विश्लेषणम्।
RESOURCES	<ul style="list-style-type: none"> पाठ्यपुस्तिकायां ‘मणिकायाम्’ प्रदत्त पाठः - ‘भारतेनास्ति मे जीवनं जीवनम् Official Government Websites: https://www.nhai.gov.in – for highways https://smartcities.gov.in – for Smart Cities Mission News Articles (search on trusted news websites like The Hindu, Times of India, or Hindustan Times) Wikipedia (with fact-checking) – for summaries and timelines YouTube – for project documentaries or virtual tours Google Maps – to explore route maps and city connectivity
MODE OF SUBMISSION	Offline submission on A4 sheet
RUBRICS	<p>भाषायाः प्रयोगः व्याकरणस्य शुद्धता च - 2</p> <p>रचनात्मकता -1</p> <p>विषय सम्बन्धित सामग्री - 2</p>

SUBJECT	GERMAN
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>Dialog Schreiben</p> <p>zwei Freunde treffen sich mit einander und diskutiert ueber das Land Indien und seinen Erfolg. Schreib eine Dialog.</p>
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to :-</p> <ul style="list-style-type: none"> • practice and improve their conversation skills in German. • expand their vocabulary related to topics like science and technology. • develop their opinions on various topics related to India.
RESOURCES	https://www.businesstoday.in/latest/story/oscars-to-air-indias-biggest-order-pm-modi-lists-indias-achievements-in-75-days-of-2023-373964-2023-03-18
MODE OF SUBMISSION	Offline submission on A4 sheet
RUBRICS	<p>Content : 2 marks</p> <p>Presentation : 1 mark</p> <p>Language and Communication: 2 marks</p>

SUBJECT	FRENCH
ASSESSMENT PARAMETER	SUBJECT ENRICHMENT ACTIVITY INVOLVING TRANS-DISCIPLINARY PROJECT
TOPIC-PROJECT / ACTIVITY	<p>Un projet de progrès en Inde</p> <p>Details- Choose a major development project in India that symbolizes progress and modernization.Examples include (Delhi-Mumbai Expressway, Bengaluru Metro, Digital India Mission, Golden Quadrilateral).Find out its purpose, benefits, and challenges.Write a paragraph in French (300-350 words) on an A4 sheet including a title, description of the project, key facts, benefits, and your opinion.Add relevant pictures.</p>
LEARNING OUTCOME/SKILL ENHANCED	<p>Each student will be able to:</p> <ul style="list-style-type: none"> • Understand the importance of infrastructure and digital development in India's progress. • Apply French vocabulary and grammar to describe real-world topics. • Enhance the ability to summarize and present factual information in a foreign language. <p>Skills Enhanced: Language Skills: Writing coherent paragraphs in French with correct grammar. Research Skills: Collecting and organizing factual data from reliable sources. Critical Thinking: Analyzing the impact and challenges of a development project. Personal Expression: Sharing one's own thoughts and reflections in French.</p>
RESOURCES	<p>Official Government Websites: https://www.nhai.gov.in – for highways https://www.digitalindia.gov.in – for Digital India https://smartcities.gov.in – for Smart Cities Mission</p> <p>News Articles (search on trusted news websites like The Hindu, Times of India, or Hindustan Times)</p> <p>Wikipedia (with fact-checking) – for summaries and timelines</p> <p>YouTube – for project documentaries or virtual tours</p> <p>Google Maps – to explore route maps and city connectivity</p>
MODE OF SUBMISSION	Offline
RUBRICS	<ul style="list-style-type: none"> • Content relevance - 2 • Use of French Vocabulary & Grammar - 2 • Creativity & Presentation - 1